

RECEIVED

Form 3160-5
(February 2005)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAY 02 2012

FORM APPROVED
OMB No 1004-0137
Expires: March 31, 2007

Farmington Field Office

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

WPX Energy Production, LLC

3a. Address

PO Box 640 Aztec, NM 87410

3b. Phone No (include area code)

505-333-1808

4. Location of Well (Footage, Sec., T., R., M. or Survey Description)

SHL: 2383' FNL & 1312' FWL, sec 23 - BHL: 1150' FSL & 450' FWL, sec 14, T31N, R6W

Lease Serial No.

SF-078771

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.
Rosa Unit

8. Well Name and No.
Rosa Unit #202A

9. API Well No.
30-039-27703

10. Field and Pool or Exploratory Area
Basin Fruitland Coal

11. Country or Parish, State
Rio Arriba

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☒ Recomplete	☐ Other _____
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation. Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

WPX Energy wishes to modify our plans to re enter this existing wellbore and convert this well from a vertical cavitation to a horizontal completion as per attached plat, operation plan and directional plan. This revised plan lowers the kick off point for the proposed horizontal lateral.

RCVD MAY 14 '12
OIL CONS. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

Larry Higgins

Title Permit Supervisor

Signature

Larry Higgins

Date 05/02/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

[Signature]

Title

Petr. Eng

Date

5/7/12

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

NMOC
AV

District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

RECEIVED

AMENDED REPORT

APR 23 2012

WELL LOCATION AND ACREAGE DEDICATION PLAT
Farmington Field Office
Bureau of Land Management

*API Number	*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 17033	*Property Name ROSA UNIT	*Well Number 202A
*OGRID No. 120782	*Operator Name WPX ENERGY PRODUCTION	*Elevation 6219'

¹⁰ Surface Location

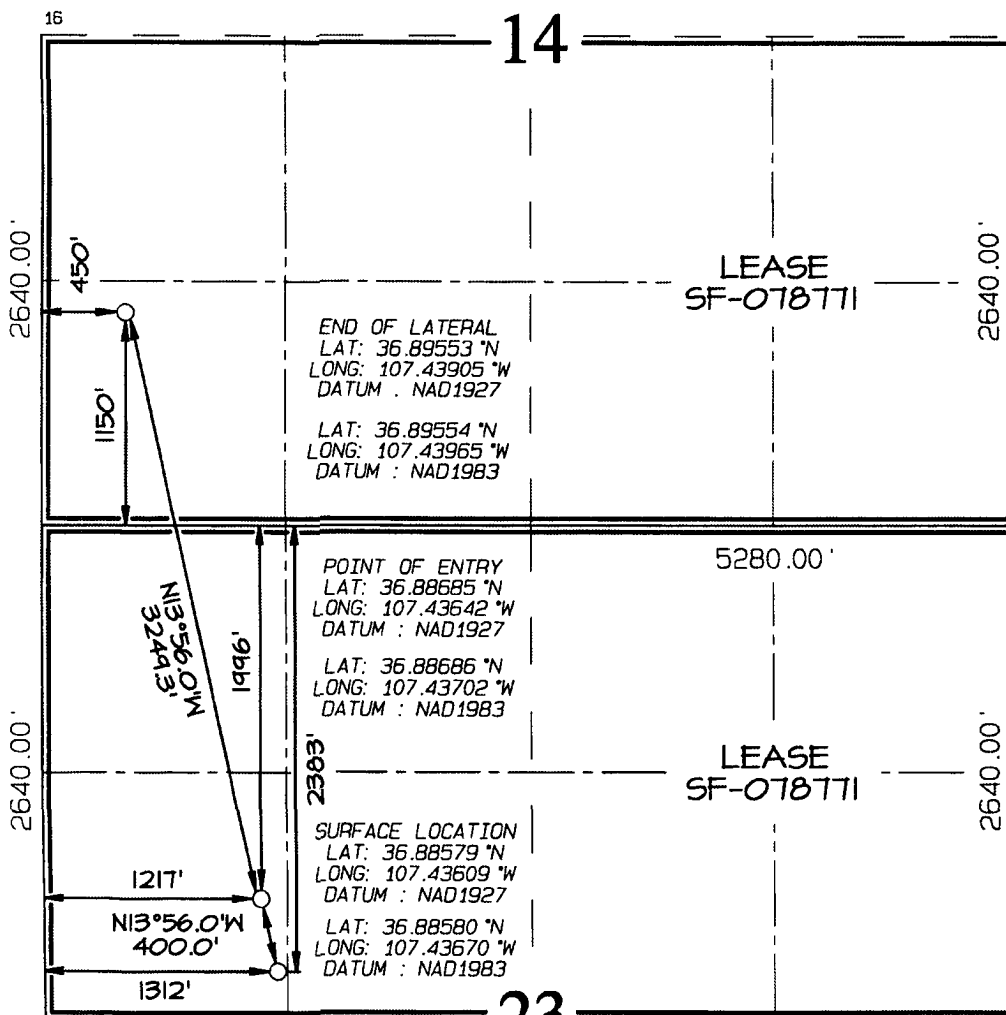
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	23	31N	6W		2383	NORTH	1312	WEST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	14	31N	6W		1150	SOUTH	450	WEST	RIO ARriba

¹² Dedicated Acres 640.0 Acres	S/2 - Section 14 N/2 - Section 23	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division

Larry Higgins 4/23/12
Signature Date

Larry Higgins

Printed Name

larry.higgins@wpxenergy.com

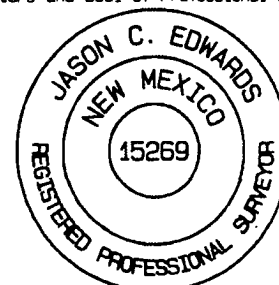
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: APRIL 7, 2012
Survey Date: NOVEMBER 25, 2003

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269



WPX Energy Production

Operations Plan

(Note: This procedure will be adjusted on site based upon actual conditions)

DATE: 5/01/2012

WELLNAME: Rosa Unit #202-A **FIELD:** Basin Fruitland Coal

BH LOCATION: SWSW Sec. 14-T31N-6W **SURFACE:** BLM
Rio Arriba, NM

ELEVATION: 6,219' GR **MINERALS:** Federal

TOTAL DEPTH: 6,437' **LEASE #** SF-078771

API#: 30-039-27703

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

NAME	TVD	MD
Kirtland	2,381	2,381
Fruitland	2,798	2,822
Top Target Coal	3,031	3,327
Bottom Target Coal	3,048	
Picture Cliffs	3,064	
TD	3,032	6,437

B. LOGGING PROGRAM: None

C. NATURAL GAUGES: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

D. MUD LOGGING PRORAM: Mud logger will be on location from mill out to TD.

II. PREPARATORY WORK

- A. MIRU w/ workover rig
- B. POOH/LD rods and pump
- C. POOH/LD production tbg
- D. Set retrievable bridge plug at +/- 2,450' inside 7" casing for 9.93 deg ROT
- E. Pressure test 7" csg and bridge plug to 1,500 psi for 30 minutes
- F. RDMO

III. DRILLING

A. MUD PROGRAM: LSND mud during mill out and while drilling curve. Treat for lost circulation as necessary. Notify Engineering of any mud losses.

B. DRILLING FLUID: Horizontal section will be drilled with Polymer mud system and produced

water.

- C. **BOP TESTING:** While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the BOPE will be tested to **250 psi (Low) for 5 minutes** and **1500 psi (High) for 10 minutes**. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be inspected and tested each tour. **All tests and inspections will be recorded in the tour book as to time and results.**

IV. **MATERIALS**

A. **CASING PROGRAM (as is):**

<u>CASING TYPE</u>	<u>HOLE SIZE</u>	<u>DEPTH (MD)</u>	<u>CASING SIZE</u>	<u>WT. & GRADE</u>
Surface	12-1/4"	321'	9-5/8"	36# J-55
Intermediate	8-3/4"	2,818'	7"	20# J-55
Prod. Liner	6-1/4"	2,800' - 3,151' ^{3069'}	5-1/2"	17# N-80

B. **CASING PROGRAM (after sidetrack):**

<u>CASING TYPE</u>	<u>HOLE SIZE</u>	<u>DEPTH (MD)</u>	<u>CASING SIZE</u>	<u>WT. & GRADE</u>
Surface	12-1/4"	321'	9-5/8"	36# J-55
Intermediate	8-3/4"	2,818'	7"	20# J-55
Prod. Liner (motherbore)	6-1/4"	2,800' - 3,069'	5-1/2"	17# N-80
Prod. Liner (sidetrack)	6-1/4"	~2,420' - 6,437'	4-1/2"	11.6# K-55

- Sidetrack production liner is pre-perforated below top of fruitland with blank pipe from window to top of fruitland and will be dropped off with top of liner in open hole 5-10' outside of window.

C. **FLOAT EQUIPMENT:**

- PRODUCTION LINER (sidetrack):** No centralization

D. **CEMENTING:**

(Note: Volumes may be adjusted onsite due to actual conditions)

- PRODUCTION LINER (sidetrack):** Open hole completion. No cement.

V. **COMPLETION**

A. **STIMULATION**

- No stimulation

B. **RUNNING TUBING**

- Fruitland Coal:** Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing at approximately 3,050' MD inside of motherbore.

Larry Higgins



Rosa Unit #202A
ST01
Sec 23 T31N R06W
Rio Arriba Co., NM

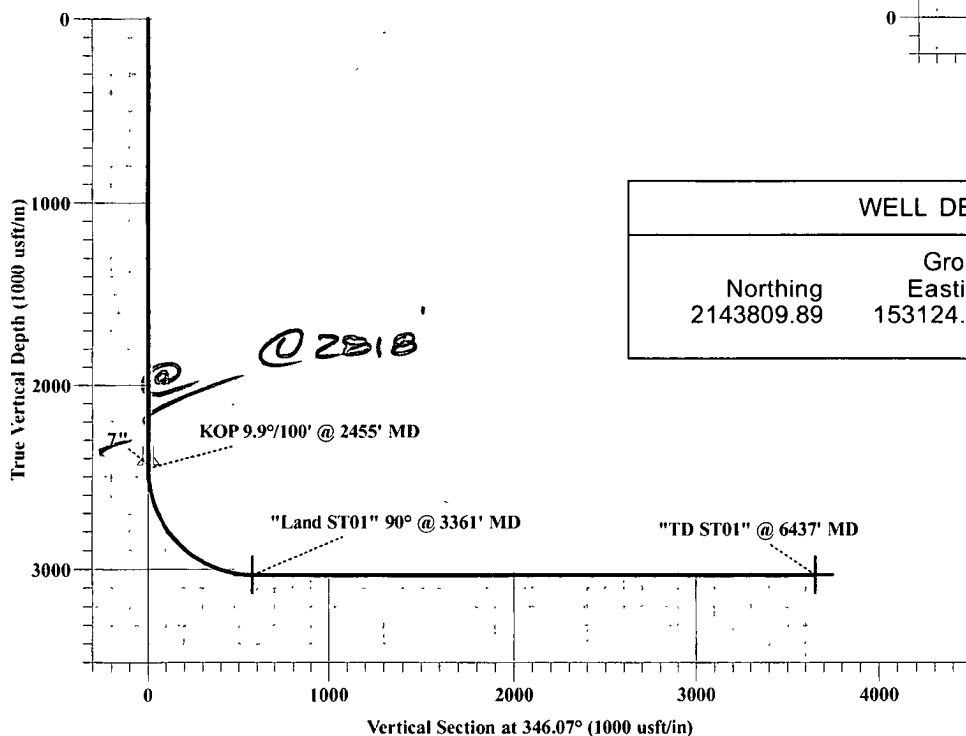
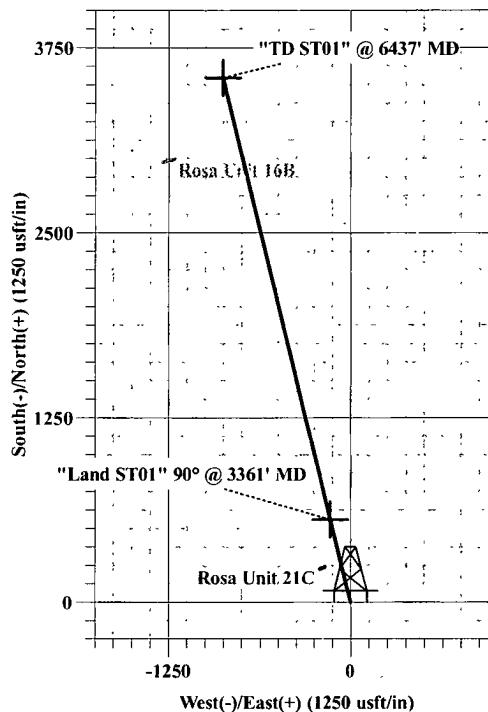
PATHFINDER
A Schlumberger Company

GE: 6219' / KB: 14'

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL 202A	3032.0	3545.6	-879.4	2147366.14	152288.97	Point
Land 202A	3032.0	560.0	-138.9	2144371.57	152992.31	Point

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2381.0	2381.0	Kirtland
2798.0	2822.3	Fruitland
3031.0	3327.4	Top Target



WELL DETAILS: Rosa Unit #202A

Ground Level: 6219.0			
Northing	Easting	Latitude	Longitude
2143809.89	153124.24	36° 53' 8.840 N	107° 26' 9.935 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2455.0	0.00	0.00	2455.0	0.0	0.0	0.00	0.00	0.0	
3361.3	90.00	346.07	3032.0	560.0	-138.9	9.93	346.07	577.0	
6437.4	90.00	346.07	3032.0	3545.6	-879.4	0.00	0.00	3653.0	BHL 202A

Plan: Design #3 (Rosa Unit #202A/ST01)

Created By: Breck Enoch

Date: 30-Apr-2012

WPXENERGY

WPXEnergy

**Rio Arriba Co., NM
Sec 23 T31N R06W
Rosa Unit #202A**

ST01

Plan: Design #3

Standard Planning Report

30 April, 2012

PATHFINDER
A Schlumberger Company

Database:	EDM.5000.1 Single User.Db	Local Co-ordinate Reference:	Well Rosa Unit #202A
Company:	WPXEnergy	TVD Reference:	WELL @ 6233 0usft (Original Well Elev)
Project:	Rio Arriba Co NM	MD Reference:	WELL @ 6233 0usft (Original Well Elev)
Site:	Sec 23 T31N R06W	North Reference:	True
Well:	Rosa Unit #202A	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Design #3		

Project:	Rio Arriba Co : NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico Central 3002		

Site: Sec 23 T31N R06W					
Site Position:		Northing:	2,143,809.89 usft	Latitude:	36° 53' 8.840 N
From:	Lat/Long	Easting:	153,124.24 usft	Longitude:	107° 26' 9.935 W
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.71 °

Well	Rosa Unit #202A					
Well Position	+N/-S	0 0 usft	Northing:	2,143,809.89 usft	Latitude:	36° 53' 8.840 N
	+E/-W	0 0 usft	Easting:	153,124.24 usft	Longitude:	107° 26' 9.935 W
Position Uncertainty		0 0 usft	Wellhead Elevation:		Ground Level:	6,219 0 usft

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	03/22/12	9 68	63 63	50,787

Design:	Design #3				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0 0	0 0	0 0	346 07	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 00	0 00	0 00	
2,455.0	0 00	0 00	2,455 0	0.0	0 0	0 00	0 00	0 00	0 00	
3,361.3	90 00	346 07	3,032 0	560.0	-138.9	9.93	9.93	0 00	346 07	
6,437.4	90 00	346 07	3,032 0	3,545.6	-879.4	0 00	0 00	0 00	0.00	BHL 202A

Database: EDM 5000.1 Single User Db
 Company: WPXEnergy
 Project: Rio Arriba Co, NM
 Site: Sec 23 T31N R06W
 Well: Rosa Unit #202A
 Wellbore: ST01
 Design: Design #3

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well Rosa Unit #202A
 WELL @ 6233 0usft (Original Well Elev)
 WELL @ 6233 0usft (Original Well Elev)
 True
 Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0 0	0 00	0 00	0 0	0 0	0 0	0 0	0 00	0 00	0 00
100 0	0 00	0 00	100 0	0 0	0 0	0 0	0 00	0 00	0 00
200 0	0 00	0 00	200 0	0 0	0 0	0 0	0 00	0 00	0 00
300 0	0 00	0 00	300 0	0 0	0 0	0 0	0 00	0 00	0 00
400 0	0 00	0 00	400 0	0 0	0 0	0 0	0 00	0 00	0 00
500 0	0 00	0 00	500 0	0 0	0 0	0 0	0 00	0 00	0 00
600 0	0 00	0 00	600 0	0 0	0 0	0 0	0 00	0 00	0 00
700 0	0 00	0 00	700 0	0 0	0 0	0 0	0 00	0 00	0 00
800 0	0 00	0 00	800 0	0 0	0 0	0 0	0 00	0 00	0 00
900 0	0 00	0 00	900 0	0 0	0 0	0 0	0 00	0 00	0 00
1,000 0	0 00	0 00	1,000 0	0 0	0 0	0 0	0 00	0 00	0 00
1,100 0	0 00	0 00	1,100 0	0 0	0 0	0 0	0 00	0 00	0 00
1,200 0	0 00	0 00	1,200 0	0 0	0 0	0 0	0 00	0 00	0 00
1,300 0	0 00	0 00	1,300 0	0 0	0 0	0 0	0 00	0 00	0 00
1,400 0	0 00	0 00	1,400 0	0 0	0 0	0 0	0 00	0 00	0 00
1,500 0	0 00	0 00	1,500 0	0 0	0 0	0 0	0 00	0 00	0 00
1,600 0	0 00	0 00	1,600 0	0 0	0 0	0 0	0 00	0 00	0 00
1,700 0	0 00	0 00	1,700 0	0 0	0 0	0 0	0 00	0 00	0 00
1,800 0	0 00	0 00	1,800 0	0 0	0 0	0 0	0 00	0 00	0 00
1,900 0	0 00	0 00	1,900 0	0 0	0 0	0 0	0 00	0 00	0 00
2,000 0	0 00	0 00	2,000 0	0 0	0 0	0 0	0 00	0 00	0 00
2,100 0	0 00	0 00	2,100 0	0 0	0 0	0 0	0 00	0 00	0 00
2,200 0	0 00	0 00	2,200 0	0 0	0 0	0 0	0 00	0 00	0 00
2,300 0	0 00	0 00	2,300 0	0 0	0 0	0 0	0 00	0 00	0 00
2,381 0	0 00	0 00	2,381 0	0 0	0 0	0 0	0 00	0 00	0 00
Kirtland									
2,400 0	0 00	0 00	2,400 0	0 0	0 0	0 0	0 00	0 00	0 00
2,432 0	0 00	0 00	2,432 0	0 0	0 0	0 0	0 00	0 00	0 00
7"									
2,455 0	0 00	0 00	2,455 0	0 0	0 0	0 0	0 00	0 00	0 00
KOP 9.9°/100' @ 2455' MD									
2,500 0	4.47	346.07	2,500.0	1 7	-0.4	1 8	9 93	9 93	0 00
2,550 0	9.43	346.07	2,549 6	7 6	-1 9	7 8	9 93	9 93	0 00
2,600 0	14 40	346 07	2,598 5	17 6	-4 4	18.1	9 93	9 93	0 00
2,650 0	19 36	346 07	2,646 3	31 7	-7 9	32 6	9 93	9 93	0 00
2,700 0	24 33	346 07	2,692 7	49 7	-12 3	51 2	9 93	9 93	0 00
2,750 0	29 29	346 07	2,737 3	71 6	-17 8	73 8	9 93	9 93	0 00
2,800 0	34 26	346 07	2,779 8	97 2	-24 1	100 1	9 93	9 93	0 00
2,822 3	36 47	346 07	2,798 0	109 7	-27 2	113 0	9.93	9 93	0 00
Fruitland									
2,850 0	39 22	346.07	2,819 9	126 2	-31 3	130 0	9 93	9 93	0 00
2,900 0	44 19	346 07	2,857 2	158 5	-39 3	163 3	9.93	9 93	0 00
2,950 0	49 15	346 07	2,891 5	193 7	-48 1	199 6	9 93	9 93	0 00
3,000 0	54.12	346.07	2,922.5	231.8	-57 5	238 8	9 93	9 93	0 00
3,050 0	59 08	346 07	2,950.0	272 3	-67 5	280 5	9 93	9 93	0 00
3,100 0	64 05	346 07	2,973 8	315 0	-78 1	324 5	9 93	9 93	0 00
3,150 0	69.01	346 07	2,993 7	359 5	-89 2	370 3	9 93	9.93	0 00
3,200 0	73 98	346 07	3,009 6	405 5	-100 6	417 7	9 93	9 93	0 00
3,250 0	78 94	346 07	3,021 3	452 6	-112.3	466.3	9 93	9 93	0 00
3,300 0	83 91	346 07	3,028 7	500 6	-124.2	515 8	9 93	9 93	0 00
3,327 4	86 63	346 07	3,031 0	527.1	-130.7	543 0	9 93	9 93	0 00
Top Target									
3,350 0	88 87	346.07	3,031 9	549 0	-136 2	565 7	9 93	9 93	0 00
3,361 3	90 00	346 07	3,032 0	560 0	-138 9	577 0	9 93	9 93	0 00

Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well Rosa Unit #202A
Company:	WPXEnergy	TVD Reference:	WELL @ 6233 0usft (Original Well Elev)
Project:	Rio Arriba Co , NM	MD Reference:	WELL @ 6233 0usft (Original Well Elev)
Site:	Sec 23 T31N R06W	North Reference:	True
Well:	Rosa Unit #202A	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Design #3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
"Land ST01" 90° @ 3361' MD									
3,400.0	90.00	346.07	3,032.0	597.5	-148.2	615.7	0.00	0.00	0.00
3,500.0	90.00	346.07	3,032.0	694.6	-172.3	715.7	0.00	0.00	0.00
3,600.0	90.00	346.07	3,032.0	791.7	-196.4	815.7	0.00	0.00	0.00
3,700.0	90.00	346.07	3,032.0	888.7	-220.4	915.7	0.00	0.00	0.00
3,800.0	90.00	346.07	3,032.0	985.8	-244.5	1,015.7	0.00	0.00	0.00
3,900.0	90.00	346.07	3,032.0	1,082.8	-268.6	1,115.7	0.00	0.00	0.00
4,000.0	90.00	346.07	3,032.0	1,179.9	-292.6	1,215.7	0.00	0.00	0.00
4,100.0	90.00	346.07	3,032.0	1,277.0	-316.7	1,315.7	0.00	0.00	0.00
4,200.0	90.00	346.07	3,032.0	1,374.0	-340.8	1,415.7	0.00	0.00	0.00
4,300.0	90.00	346.07	3,032.0	1,471.1	-364.9	1,515.7	0.00	0.00	0.00
4,400.0	90.00	346.07	3,032.0	1,568.1	-388.9	1,615.7	0.00	0.00	0.00
4,500.0	90.00	346.07	3,032.0	1,665.2	-413.0	1,715.7	0.00	0.00	0.00
4,600.0	90.00	346.07	3,032.0	1,762.3	-437.1	1,815.7	0.00	0.00	0.00
4,700.0	90.00	346.07	3,032.0	1,859.3	-461.2	1,915.7	0.00	0.00	0.00
4,800.0	90.00	346.07	3,032.0	1,956.4	-485.2	2,015.7	0.00	0.00	0.00
4,900.0	90.00	346.07	3,032.0	2,053.4	-509.3	2,115.7	0.00	0.00	0.00
5,000.0	90.00	346.07	3,032.0	2,150.5	-533.4	2,215.7	0.00	0.00	0.00
5,100.0	90.00	346.07	3,032.0	2,247.6	-557.4	2,315.7	0.00	0.00	0.00
5,200.0	90.00	346.07	3,032.0	2,344.6	-581.5	2,415.7	0.00	0.00	0.00
5,300.0	90.00	346.07	3,032.0	2,441.7	-605.6	2,515.7	0.00	0.00	0.00
5,400.0	90.00	346.07	3,032.0	2,538.7	-629.7	2,615.7	0.00	0.00	0.00
5,500.0	90.00	346.07	3,032.0	2,635.8	-653.7	2,715.7	0.00	0.00	0.00
5,600.0	90.00	346.07	3,032.0	2,732.8	-677.8	2,815.7	0.00	0.00	0.00
5,700.0	90.00	346.07	3,032.0	2,829.9	-701.9	2,915.7	0.00	0.00	0.00
5,800.0	90.00	346.07	3,032.0	2,927.0	-726.0	3,015.7	0.00	0.00	0.00
5,900.0	90.00	346.07	3,032.0	3,024.0	-750.0	3,115.7	0.00	0.00	0.00
6,000.0	90.00	346.07	3,032.0	3,121.1	-774.1	3,215.7	0.00	0.00	0.00
6,100.0	90.00	346.07	3,032.0	3,218.1	-798.2	3,315.7	0.00	0.00	0.00
6,200.0	90.00	346.07	3,032.0	3,315.2	-822.3	3,415.7	0.00	0.00	0.00
6,300.0	90.00	346.07	3,032.0	3,412.3	-846.3	3,515.7	0.00	0.00	0.00
6,400.0	90.00	346.07	3,032.0	3,509.3	-870.4	3,615.7	0.00	0.00	0.00
6,437.4	90.00	346.07	3,032.0	3,545.6	-879.4	3,653.0	0.00	0.00	0.00
"TD ST01" @ 6437' MD									

Design Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
Land 202A	- plan hits target center - Point	0.00	0.00	3,032.0	560.0	-138.9	2,144,371.57	152,992.31	36° 53' 14.377 N 107° 26' 11.644 W
BHL 202A	- plan hits target center - Point	0.00	0.00	3,032.0	3,545.6	-879.4	2,147,366.14	152,288.98	36° 53' 43.897 N 107° 26' 20.760 W

Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well Rosa Unit #202A
Company:	WPXEnergy	TVD Reference:	WELL @ 6233.0usft (Original Well Elev)
Project:	Rio Arriba Co , NM	MD Reference:	WELL @ 6233.0usft (Original Well Elev)
Site:	Sec 23 T31N R06W	North Reference:	True
Well:	Rosa Unit #202A	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Design #3		

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
2,432.0	2,432.0	7"	7	8-3/4

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,381.0	2,381.0	Kirtland		0.00	
2,822.3	2,798.0	Fruitland		0.00	
3,327.4	3,031.0	Top Target		0.00	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,455.0	2,455.0	0.0	0.0	KOP 9 9°/100' @ 2455' MD
3,361.3	3,032.0	560.0	-138.9	"Land ST01" 90° @ 3361' MD
6,437.4	3,032.0	3,545.6	-879.4	"TD ST01" @ 6437' MD